

09/864,685  
Page 3

### AMENDMENTS TO THE SPECIFICATION

Please amend the specification as follows:

Please replace the paragraph entitled "Cross Reference to Related Application" on page 1 of the specification with the following paragraph:

a<sup>1</sup> This application claims ~~priority to US~~ the benefit of U.S. Provisional Application 60/279,859, entitled METHODS AND COMPOSITIONS FOR THE TREATMENT OF HUMAN AND ANIMAL CANCERS, filed on March 29, 2001, Serial No. \_\_\_\_\_ (Attorney Docket No. 54938-226916).

On page 3 of the specification, please replace the second full paragraph (beginning at line 17) with the following paragraph:

a<sup>2</sup> In one aspect of the invention, compositions of the present invention are prepared by incorporating one or more of the components A, B, C, and D into the composition. The dithiocarbonyl component A, preferably a dithiocarbamate compound, of the composition usually has the formula:  $(R_1)_m(R_2)-Z-C-S-S-Y(R_1)_m(R_2)-Z-C(S)-S-Y$  wherein m is 0 or 1, but other structures can be envisioned. For example, a dithiocarbamate moiety can be inserted into fatty acid chains, or between the phosphate group and the polar headgroup, or at the end of the polar headgroup in a phospholipid molecule.

On page 11 of the specification, please replace the second full paragraph (beginning at line 7) with the following paragraph:

a<sup>3</sup> Component A, the dithiocarbonyl compounds, particularly dithiocarbamates, of the present invention generally have the formula:  $(R_1)_m(R_2)-Z-C-S-S-Y(R_1)_m(R_2)-Z-C(S)-S-Y$ , wherein m is 0 or 1.

09/864,685  
Page 4

a4  
On page 15 of the specification, please replace the second full paragraph (beginning at line 10) with the following paragraph:

Other preferred dithiocarbonyl components for use in the compositions of the present invention are dimers of the dithiocarbonyl compounds described previously. Such dimers may be represented by the formula:  $(R_1)_m(R_2)_nZ-C-S-S-C-Z(R_1)_m(R_2)_n$   
 $(R_1)_m(R_2)_nZ-C(S)-S-S-C(S)-Z(R_1)_m(R_2)_n$ . A preferred embodiment is Disulfuram, which is a dimer of DEDC currently used for the treatment of alcohol abuse.

a5  
On page 25 of the specification, please replace the first full paragraph (beginning at line 5) with the following paragraph:

The ability of the compositions to alter the viability of a broad range of cancerous cell types, while inducing less changes in minimally affecting the viability of noncancerous cells, are set forth in detail in Examples 1-23 1-24 below.

a6  
On page 37 of the specification, please replace the heading beginning at line 25 with the following heading:

**Examples 20 and 21 and 22. In vivo HT-29 human colon carcinoma and HT-18 HT-168 human melanoma mouse xenografts.**

a7  
On page 39 of the specification, please replace the heading beginning at line 21 with the following heading:

**Example 22 23. Western blot analysis of apoptotic gene product expression in cancer cells.**

a8  
On page 40 of the specification, please replace the heading beginning at line 14 with the following heading:

**Example 23 24. In vivo acute toxicological investigations.**